

Attractant Tests Conducted at Captiva, Fla., May 12-18, 1956
Brandstein, Baumhover, and Bushland

Four traps were placed approximately 10 feet apart in a straight line and rotated twice daily during the 24-hour catches with each bait. All baits were replaced with material at the beginning of each trapping period except for the liver. During the first 2 days of the test the baits were applied to the guinea pigs and although several screw-worm flies were observed feeding on the material, no egg masses were laid. Only one egg mass was oviposited on one of two wounded guinea pigs during the initial 2-day period.

Baits

- 1 10 gm. dried egg yolk in 200 cc. H₂O incubated 3 days at 37°C.
 200 grams ground horse meat
 100 cc. citrated beef blood
- 2 10 gm. tryptone in 200 cc. H₂O incubated 2 days at 37°C.
 200 gm. ground horse meat
 100 gm. citrated beef blood
- 3 10 gm. myostate in 200 cc. H₂O incubated 2 days with a Proteus at 37° C.
 200 gm. ground horse meat
 100 cc. citrated beef blood
- 4 1 pound fresh liver partially submerged in tap water.

Catch initial 2-day period
(all bait changed each day except liver)

Bait	5/12			5/13			2-Day total		
	SW		Catch in cc.	SE		Catch in cc.	SW		Catch in cc.
	M	F		M	F		M	F	
1	1	14	1,850	3	7	2,500	4	21	4,350
2	0	2	230	0	0	120	0	2	350
3	0	2	150	0	0	170	0	2	320
4	0	8	290	0	2	90	0	10	380

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Catch Initial 2-day period
(all bait changed each day except liver)

Bait	SW			SW			SW			SW		
	M	F	in cc.	M	F	in cc.	M	F	in cc.	M	F	in cc.
1	1	1	1,850	3	7	2,500	1	21	1,350			
2	0	2	230	0	0	120	0	2	350			
3	0	2	150	0	0	170	0	2	350			
4	0	8	290	0	2	90	0	10	380			

Catch 5-day period
(baits not changed; liver trap continued from previous 2-day test)

: 5/14-5/18			
Bait	: SW :		Catch
	: M :	: F :	
			in cc.
1	4	81	6,500
2	1	18	2,450
3	1	4	650
4	0	0	25

Two supplementary tests conducted at Bithlo to prevent the loss of fluid did not achieve the desired effect. On Captiva, the egg yolk bait was almost dry after 24 hours due to the large numbers of flies feeding and evaporation. The first test used two cake pans separated by approximately 2 inches of vertical screen. Sarcophagid larvae were observed growing in the pans of media on the fourth day, completely dehydrating the bait and leaving little proteinaceous material. The second test utilized a plastic cover perforated with tiny pin holes but was invalidated when the liver baited pan developed holes in the plastic and the sarcophagids were again observed growing. Reportable results are recorded below:

Test 1 (started 5/25)

: 5/28			
Bait	: SW :		Catch
	: M :	: F :	
			in cc.
1	0	4	250
3	0	2	80
4	0	0	30
5*	0	0	70

Test 2 (started 6/6)
(no change of materials)

Bait	: 6/7			: 6/8			: Total		
	: SW :		Catch	: SW :		Catch	: SW :		Catch
	: M :	: F :		: M :	: F :		: M :	: F :	
			in cc.			in cc.			in cc.
1	0	4	100	0	1	275	0	5	375
3	0	1	5	0	0	10	0	1	15
4	0	1	5	0	2	75	0	3	80
5*	0	0	3	0	0	40	0	0	43

* Bait 5 contained 200 gm. of ground horse meat, 100 cc. of citrated beef blood, and 200 cc. of tap water.

Additional bait testing is now being conducted at Bithlo, Fla.

[illegible]

Two supplementary tests conducted at Hithio to prevent the loss of fluid did not achieve the desired effect. On Cephalic, the egg yolk belt was almost dry after 24 hours due to the large numbers of flies feeding and evaporation. The first test used two cake pans separated by approximately 2 inches of vertical screen. Sarcophagid larvae were observed growing in the pans of media on the fourth day, completely denigrating the bait and leaving little proteinaceous material. The second test utilized a plastic cover perforated with tiny pin holes but was invalidated when the liver baited pan developed holes in the plastic and the sarcophagids were again observed growing. Reportable results are recorded below:

Rate	M	S	in co.
1	0	0	250
2	0	0	80
3	0	0	30
4	0	0	70

[illegible]

Additional salt testing is now being conducted at Elkhio, Wyo.